

Application Number: 10/573,052
Examiner: HAVLIN, ROBERT H

IN THE CLAIMS

Please amend the claims of the present application under the provisions of 37 C.F.R. §1.121(c), as indicated below:

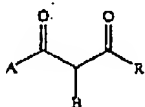
1. (Cancelled):

2. (Previously presented): The derivatives according to claim 17, characterized in that the compound having formula (I) are present as tautomeric forms, pure or as blends of tautomeric forms, in any proportion whatsoever

3-12 (Cancelled):

13. (Previously presented): Herbicidal compositions containing, one or more compounds having general formula (I):

(I)



wherein A, B and R have the meanings according to claim 17, possibly also as a blend of tautomers .

14. (Previously presented): The herbicidal compositions according to claim 13, including other herbicides, fungicides, insecticides, acaricides, fertilizers, compatible with the compounds having general formula (I).

15. (Original): The herbicidal compositions according to claim 14, characterized in that the additional herbicides are selected from:

acetochlor, acifluorfen, aclonifen, AKH-7088, alachlor, alloxym, ametryn, amicarbazone, amidosulfuron, amitrole, anilofos, asulam, atrazine, azafenidin,

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azimsulfuron, aziprotryne, BAS 670 H, BAY MKH 6561, beflubutamid, benazolin, benfluralin, benfuresate, bensulfuron, bensulide, bentazone, benzfendizone, benzobicyclon, benzofenap, benzthiazuron, bifenox, bilanafos, bispyribac-sodium, bromacil, bromobutide, bromofenoxim, bromoxynil, butachlor, butafenacil, butamifos, butenachlor, butralin, butoxydim, butylate, cafenstrole, carbetamide, carfentrazone-ethyl, chlomethoxyfen, chloramben, chlorbromuron, chlorbufam, chlorflurenol, chloridazon, chlorimuron, chlornitrofen, chlorotoluron, chloroxuron, chlorpropham, chlorsulfuron, chlorthal, chlorthiamid, cinidon ethyl, cinmethylin, cinosulfuron, clclothodim, clodinafop, clomazone, clomeprop, clopyralid, cloransulam-methyl, cumyluron (JC-940), cyanazine, cycloate, cyclosulfamuron, cycloxydim, cyhalofop-butyl, 2,4-D, 2,4-DB, daimuron, dalapon, desmedipham, desmetryn, dicamba, dichlobenil, dichlorprop, dichlorprop-P, diclofop, diclosulam, diethatyl, difenoxuron, difenzoquat, diflufenican, diflufenzopyr, dimefuron, dimepiperate, dimethachlor, dimethametryn, dimethenamid, dinitramine, dinosseb, dinoseb acetate, dinoterb, diphenamid, dipropetryn, diquat, dithiopyr, 1-diuron, eglinazone, endothal, EPTC, esprocarb, ethalfluralin, ethametsulfuron-methyl, ethidimuron, ethiozin (SMY 1500), ethofumesate, ethoxyfen-ethyl (HC-252), ethoxysulfuron, etobenzanid (HW 52), fenoxaprop, fenoxaprop-P, fentrazamide, fenuron, flamprop, flamprop-M, flazasulfuron, florasulam, fluazifop, fluazifop-P, fluazolate (JV 485), flucarbazone-sodium, fluchloralin, flufenacet, flufenpyr ethyl, flumetsulam, flumiclorac-pentyl, flumioxazin, flumipropin, fluometuron, fluoroglyphofen, fluoronitrofen, flupoxam, fluproanate, flupyrsulfuron, flurenol, fluridone, flurochloridone, fluroxypyr, flurtamone, fluthiacet-methyl, fomesafen, foramsulfuron, fosamine, furyloxyfen, glufosinate, glyphosate, halosulfuron-methyl, haloxyfop, haloxyfop-P-methyl, hexazinone, imazamethabenz, imazamox, imazapic, imazapyr, imazaquin, imazethapyr, imazosulfuron, indanofan, indosulfuron, ioxynil, isopropalin, isoproturon, isouron, isoxaben, isoxachlortole, isoxaflutole, isoxapyrifop, KPP-421, lactofen, lenacil, linuron, LS830556, MCPA, MCPA-thioethyl, MCPB, mecoprop, mecoprop-P, mefenacet, mesosulfuron, mesotrione, metamitron, metazachlor,

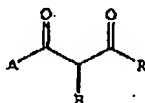
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methabenzthiazuron, methazole, methoprotryne, methyldymron, metobenzuron,
metobromuron, metolachlor, S-metolachlor, metosulam, metoxuron, metribuzin,
metsulfuron, molinate, monalide, monolinuron, naproanilide, napropamide, naptalam,
NC-330, neburon, nicosulfuron, nipyraclufen, norflurazon, orbencarb, oryzalin,
oxadiargyl, oxadiazon, oxasulfuron, oxaziclomefone, oxyfluorfen, paraquat, pebulate,
pendimethalin, penoxsulam, pentanochlor, pentoxazone, pethoxamid, phenmedipham,
picloram, picolinafen, piperophos, pretilachlor, primisulfuron, prodiamine, proflunazox,
proglazine, prometon, prometryne, propachlor, propanil, propaquizafop, propazine,
propham, propisochlor, propyzamide, prosulfocarb, prosulfuron, pyraclostrobin,
pyraflufen-ethyl, pyrazogly (HAS-961), pyrazolynate, pyrazosulfuron, pyrazoxyfen,
pyribenzoxim, pyributicarb, pyridafol, pyridate, pyristalid, pyriminobac-methyl,
pyrithiobac-sodium, quinclorac, quinmerac, quizalofop, quizalofop-P, rimsulfuron,
sethoxydim, siduron, simazine, simetryn, sulcotriene, sulfentrazone, sulfometuron-
methyl, sulfosulfuron, 2,3,6-TBA, TCA-sodium, tebutam, tebuthiuron, terbufos,
terbacil, terbumeton, terbuthylazine, terbutryn, thienylchlor, thiazafluron, thiazopyr,
thidiazimin, thifensulfuron-methyl, thiobencarb, tiocarbazil, tioclorim, trialkoxydim,
tri-allate, triasulfuron, triaziflam, tribenuron, triclopyr, trisetazine, trifloxysulfuron,
trifluralin, triflusulfuron-methyl, tritosulfuron, UBI-C4874, vernolate.

16. (Original): The compositions according to any of the claims 13-15, characterized in that the concentration of active substance ranges from 1 to 90%.

17. (Previously presented): Derivatives of 1,3-diones having general formula (I):

(I)



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wherein:

-A represents:

an aryl group optionally substituted by one or more substituents selected from halogen; NO₂; CN; CHO; OH; linear or branched C₁-C₆ alkyl; linear or branched C₁-C₆ haloalkyl; linear or branched C₁-C₆ alkoxy; linear or branched C₁-C₆ haloalkoxy; C₁-C₆ cyanoalkyl; C₂-C₆ alkoxyalkyl; C₂-C₆ alkylthioalkyl; C₂-C₆ alkylsulfinylalkyl; C₂-C₆ alkylsulfonylalkyl; C₂-C₆ haloalkoxyalkyl; C₂-C₆ haloalkylthioalkyl; C₂-C₆ haloalkylsulfinylalkyl; C₂-C₆ haloalkylsulfonylalkyl; C₂-C₆ alkoxyalkoxy or C₂-C₆ haloalkoxyalkoxy optionally substituted with a group selected from C₁-C₄ alkoxy or C₁-C₄ haloalkoxy; C₂-C₆ alkylthioalkoxy; C₂-C₆ haloalkylthioalkoxy; C₃-C₁₂ dialkoxyalkyl; C₃-C₁₂ dialkylthioalkyl; C₃-C₁₂ dialkylthioalkoxy; C₃-C₁₂ dialkoxyalkoxy; C₂-C₆ haloalkoxyhaloalkoxy; C₃-C₁₀ alkoxyalkoxyalkyl; C₂-C₆ alkenyl; C₂-C₆ haloalkenyl; C₂-C₆ alkenyloxy; C₂-C₆ haloalkenyloxy; C₃-C₈ alkenyloxyalkoxy; C₃-C₈ haloalkenyloxyalkoxy; C₂-C₆ alkynyl; C₂-C₆ haloalkynyl; C₂-C₆ alkynyloxy; C₂-C₆ haloalkynyloxy; C₃-C₈ alkynyloxyalkoxy; C₃-C₈ haloalkynyloxyalkoxy; C₃-C₁₂ acylaminoalkoxy; C₂-C₈ alkoxyiminoalkyl; C₂-C₈ haloalkoxyiminoalkyl; C₃-C₈ alkenyloxyiminoalkyl; C₃-C₈ haloalkenyloxyiminoalkyl; C₃-C₈ alkynyloxyiminoalkyl; C₃-C₈ haloalkynyloxyiminoalkyl; C₅-C₁₀ alkoxyalkynyloxy; C₆-C₁₂ cycloalkylidenciminoxyalkyl; C₆-C₁₂ dialkylidenciminoxyalkyl; —S(O)_mR₁; —OS(O)_tR₁; —SO₂NR₂R₃; —CO₂R₄; —COR₅; —CONR₆R₇; —CSNR₈R₉; —NR₁₀R₁₁; —NR₁₂COR₁₃; —NR₁₄CO₂R₁₅; —NR₁₆CONR₁₇R₁₈; —PO(R₁₉)₂; —Q; —ZQ₁; —(CR₂₀R₂₁)pQ₂; —Z(CR₂₂R₂₃)pQ₃; —(CR₂₄R₂₅)pZQ₄; —(CR₂₆R₂₇)pZ(CR₂₈R₂₉)qQ₅; —(CR₃₀R₃₁)pZ(CR₃₂R₃₃)qZ₁Q₆; —Z₂(CR₃₄R₃₅)p(C=Y)T; —Z₃(CR₃₆R₃₇)v(CR₃₈R₃₉=CR₄₀R₄₁)(C=Y)T;

or it represents a heterocyclic group selected from pyridyl; pyrimidyl; quinoliny; pyrazolyl; thiazolyl; oxazolyl; thienyl; furyl; benzothienyl; dihydrobenzothienyl; benzofuranyl; dihydrobenzofuranyl; benzoxazolyl; benzoxazolonyl; benzothiazolyl;

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benzothiazolonyl; benzoimidazolyl; benzoimidazolonyl; benzotriazolyl; chromanonyl; chromanyl; thiochromanonyl; thiochromanyl;

3a,4-dihydro-3H-indeno[1,2-c]isoxazolyl, 3a,4-dihydro-3H-chromeno[4,3-c]isoxazolyl, 5,5-dioxide-3a,4-dihydro-3H-thiochromeno[4,3-c]isoxazolyl, 2,3,3a,4-tetrahydrochromeno[4,3-c]pyrazolyl, 6,6-dioxide-2,3-dihydro-5H-[1,4]dithiino[2,3-c]thiochromenyl, 5,5-dioxide-2,3,3a,4-tetrahydrothiochromeno[4,3-c]pyrazolyl, 1',1'-dioxide-2',3'-dihydrospiro[1,3-dioxolano-2,4'-thiochromen]-yl, 1,1,4,4-tetraoxide-2,3-dihydro-1,4-benzodithiin-6-yl, 4,4-dioxide-2,3-dihydro-1,4-benzoxathiin-7-yl, 1,1-dioxide-3-oxo-2,3-dihydro-1,2-benzisothiazol-5-yl, 4-(alkoxyimino)-1,1-dioxide-3,4-dihydro-2H-thiochromen-6-yl, 1,1-dioxide-4-oxo-3,4-dihydro-2H-thiochromen-6-yl, 2,3-dihydro-1,4-benzoxathiin-7-yl, with said heterocyclic groups optionally substituted by one or more substituents selected from halogen; NO₂; CN; CHO; OH; linear or branched C₁-C₆ alkyl; linear or branched C₁-C₆ haloalkyl; linear or branched C₁-C₆ alkoxy; linear or branched C₁-C₆ haloalkoxy; C₁-C₆ cyanoalkyl; C₂-C₆ alkoxyalkyl; C₂-C₆ alkylthioalkyl; C₂-C₆ alkyl sulfinylalkyl; C₂-C₆ alkylsulfonylalkyl; C₂-C₆ haloalkoxyalkyl; C₂-C₆ haloalkylthioalkyl; C₂-C₆ haloalkylsulfinylalkyl; C₂-C₆ haloalkylsulfonylalkyl; C₂-C₆ alkoxyalkoxy or C₂-C₆ haloalkoxyalkoxy optionally substituted with a group selected from C₁-C₄ alkoxy or C₁-C₄ haloalkoxy; C₂-C₆ alkylthioalkoxy; C₂-C₆ haloalkylthioalkoxy; C₃-C₁₂ dialkoxyalkyl; C₃-C₁₂ dialkylthioalkyl; C₃-C₁₂ dialkylthioalkoxy; C₃-C₁₂ dialkoxyalkoxy; C₂-C₆ haloalkoxyhaloalkoxy; C₃-C₁₀ alkoxyalkoxyalkyl; C₂-C₆ alkenyl; C₂-C₆ haloalkenyl; C₂-C₆ alkenyloxy; C₂-C₆ haloalkenyloxy; C₃-C₈ alkenyloxyalkoxy; C₃-C₈ haloalkenyloxyalkoxy; C₂-C₆ alkynyl; C₂-C₆ haloalkynyl; C₂-C₆ alkynyloxy; C₂-C₆ haloalkynyloxy; C₃-C₈ alkynyloxyalkoxy; C₃-C₈ haloalkynyloxyalkoxy; C₃-C₁₂ acylaminoalkoxy; C₂-C₈ alkoxyiminoalkyl; C₂-C₈ haloalkoxyiminoalkyl; C₃-C₈ alkenyloxyiminoalkyl; C₃-C₈ haloalkenyloxyiminoalkyl; C₃-C₈ alkynyloxyiminoalkyl; C₃-C₈ haloalkynyloxyiminoalkyl; C₅-C₃₀ alkoxyalkynyloxy; C₆-C₁₂ cycloalkylideneiminoalkoxy; C₆-C₁₂ dialkylideneiminoalkoxy; —S(O)_mR₁; —OS(O)_nR₁; —SO₂NR₂R₃; —CO₂R₄; —COR₅; —CONR₆R₇; —CSNR₈R₉; —NR₁₀R₁₁;

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$\text{---NR}_{12}\text{COR}_{13}$; $\text{---NR}_{14}\text{CO}_2\text{R}_{15}$; $\text{---NR}_{16}\text{CONR}_{17}\text{R}_{18}$; $\text{---PO}(\text{R}_{19})_2$; ---Q ; ---ZQ_1 ; ---
 $(\text{CR}_{20}\text{R}_{21})_p\text{Q}_2$; $\text{---Z}(\text{CR}_{22}\text{R}_{23})_p\text{Q}_3$; $\text{---}(\text{CR}_{24}\text{R}_{25})_p\text{ZQ}_4$; $\text{---}(\text{CR}_{26}\text{R}_{27})_p\text{Z}(\text{CR}_{29}\text{R}_{29})_q\text{Q}_5$; ---
 $(\text{CR}_{30}\text{R}_{31})_p\text{Z}(\text{CR}_{32}\text{R}_{33})_q\text{Z}_1\text{Q}_6$; $\text{---Z}_2(\text{CR}_{34}\text{R}_{35})_p(\text{C}=\text{Y})\text{T}$; $\text{---Z}_3(\text{CR}_{36}\text{R}_{37})$;
 $(\text{CR}_{38}\text{R}_{39}=\text{CR}_{40}\text{R}_{41})(\text{C}=\text{Y})\text{T}$;

-B represents a D-(R_x)_n group;

-R represents a hydrogen atom; a linear or branched C₁-C₆ alkyl group; a linear or branched C₁-C₆ haloalkyl group; a C₃-C₆ cycloalkyl or C₄-C₁₂ cyclo-alkylalkyl group optionally substituted with halogen atoms or C₁-C₆ alkyl or C₁-C₆ thioalkyl or C₁-C₆ alkoxyl or C₂-C₆ alkoxycarbonyl groups; C₂-C₆ alkenyl groups; C₂-C₆ alkynyl groups; the latter two groups, in turn, optionally substituted with halogen atoms; a C₅-C₆ cycloalkenyl group optionally substituted with halogen atoms or C₁-C₆ alkyl groups; an aryl or arylalkyl group optionally substituted;

-R₁ and R₁₉ represent a C₁-C₆ alkyl group or a C₁-C₆ haloalkyl group; a C₃-C₆ cycloalkyl group; an aryl group optionally substituted by one or more substituents selected from halogen, NO₂, CN, CHO, linear or branched C₁-C₆ alkyl, linear or branched C₁-C₆ haloalkyl, linear or branched C₁-C₆ alkoxyl, linear or branched C₃-C₆ haloalkoxyl, C₁-C₆ alkylsulfonyl, C₂-C₆ alkoxycarbonyl;

-m is equal to 0, 1 or 2;

-t is equal to 1 or 2;

-R₂, R₃, R₆, R₇, R₈, R₉, R₁₀, R₁₁, R₁₇ and R₁₈, the same or different, represent a hydrogen atom; a linear or branched C₁-C₆ alkyl group in turn optionally substituted with halogen atoms; a C₁-C₆ alkoxyl group; a C₃-C₆ cycloalkyl group; an arylalkyl group or an aryl group; said arylalkyl and aryl groups also optionally substituted by

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one or more substituents selected from halogen, NO₂, CN, CHO, linear or branched C₁-C₆ alkyl, linear or branched C₁-C₆ haloalkyl, linear or branched C₁-C₆ alkoxy, linear or branched C₁-C₆ haloalkoxy, C₁-C₆ alkylsulfonyl, C₂-C₆ alkoxy-carbonyl, or, together with the group bonded to the same N atom, they jointly represent a C₂-C₅ alkylene group;

-R₄, R₅ and R₄₂ represent a hydrogen atom; a linear or branched C₁-C₆ alkyl group in turn optionally substituted with halogen atoms; a C₃-C₆ alkenyl group in turn optionally substituted with halogen atoms; a Q₇ group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO₂, CN, CHO, linear or branched C₁-C₆ alkyl, linear or branched C₁-C₆ haloalkyl, linear or branched C₁-C₆ alkoxy, linear or branched C₁-C₆ haloalkoxy, C₁-C₆ alkylsulfonyl, C₂-C₆ alkoxy-carbonyl;

-R₁₂, R₁₄ and R₁₆ represent a hydrogen atom; a linear or branched C₁-C₆ alkyl group in turn optionally substituted with halogen atoms; a C₃-C₆ cycloalkyl group; a C₁-C₆ alkoxy group; a C₁-C₆ haloalkoxy group;

-R₁₃ and R₁₅ represent a hydrogen atom; a linear or branched C₁-C₆ alkyl group in turn optionally substituted with halogen atoms; a C₃-C₆ alkenyl group in turn optionally substituted with halogen atoms; a Q₇, NH₂, NHCN, NHNH₂, NHOH group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO₂, CN, CHO, linear or branched C₁-C₆ alkyl, linear or branched C₁-C₆ haloalkyl, linear or branched C₁-C₆ alkoxy, linear or branched C₁-C₆ haloalkoxy, C₁-C₆ alkylsulfonyl, C₂-C₆ alkoxy-carbonyl;

R₂₀, R₂₁, R₂₂, R₂₃, R₂₄, R₂₅, R₂₆, R₂₇, R₂₈, R₂₉, R₃₀, R₃₁, R₃₂, R₃₃, R₃₄, R₃₅, R₃₆, R₃₇, R₃₈, R₃₉, R₄₀ and R₄₁, the same or different, represent: a hydrogen atom; a linear or branched C₁-C₆ alkyl group in turn optionally substituted with halogen atoms; a C₁-C₆

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alkoxyl group; or the two groups attached to the same carbon atom can be joined to each other by C₂-C₅ alkylene groups, the alkylene groups can in turn be substituted with C₁-C₃ alkyl groups;

-Q, Q₁, Q₂, Q₃, Q₄, Q₅, Q₆ and Q₇ represent an aryl group; a C₃-C₆ cycloalkyl group; a C₅-C₆ cycloalkenyl group; a heterocyclic group selected from triazolyl; triazolonyl; pyrazolyl; imidazolyl; imidazolidinonyl; tetrazolyl; tetrazolonyl; isoxazolyl; furyl; thienyl; pyrrolyl; pyrrolidinyl; pyrrolidinonyl; pyridyl; pyrimidinyl; pyrimidinonyl; pyrazinyl; pyridazinyl; oxazolyl; thiazolyl; oxadiazolyl; thiadiazolyl; isothiazolyl; benzoxazolyl; benzothiazolyl; isoxazolinyl; 1,3-dioxanyl; 1,4-dioxanyl; 1,3-dioxolanyl; tetrahydropyranyl; oxethanyl; oxyranyl; thiazolidinyl; oxazolidinyl; piperidinyl; piperidinonyl; piperazinyl; morpholinyl; thiazinyl; tetrahydrofuranyl; dioxazolyl; tetrahydrofuroisoxazolyl; 2-oxa-3-azabicyclo[3.1.0]hex-3-enyl; said groups optionally substituted by one or more substituents selected from halogen; NO₂; OH; CN; CHO; linear or branched C₁-C₆ alkyl; linear or branched C₁-C₆ haloalkyl; linear or branched C₁-C₆ alkoxy; linear or branched C₁-C₆ haloalkoxy; C₁-C₆ cyanoalkyl; C₂-C₆ alkoxyalkyl; C₂-C₆ alkylthioalkyl; C₂-C₆ alkylsulfinylalkyl; C₂-C₆ alkylsulfonylalkyl; C₂-C₆ haloalkoxyalkyl; C₂-C₆ haloalkylthioalkyl; C₂-C₆ haloalkylsulfinylalkyl; C₂-C₆ haloalkylsulfonylalkyl; C₂-C₆ alkoxyalkoxy or C₂-C₆ haloalkoxyalkoxy optionally substituted with a group selected from C₁-C₄ alkoxy or C₁-C₄ haloalkoxy; C₂-C₆ alkylthioalkoxy; C₂-C₆ haloalkylthioalkoxy; C₃-C₁₂ dialkoxyalkyl; C₃-C₁₂ dialkylthioalkyl; C₃-C₁₂ dialkylthioalkoxy; C₃-C₁₂ dialkoxyalkoxy; C₂-C₆ haloalkoxyhaloalkoxy; C₃-C₁₀ alkoxyalkoxyalkyl; C₂-C₆ alkenyl; C₂-C₆ haloalkenyl; C₂-C₆ alkenyloxy; C₂-C₆ haloalkenyloxy; C₃-C₈ alkenyloxyalkoxy; C₃-C₈ haloalkenyloxyalkoxy; C₂-C₆ alkynyl; C₂-C₆ haloalkynyl; C₂-C₆ alkynyloxy; C₂-C₆ haloalkynyloxy; C₃-C₈ alkynyloxyalkoxy; C₃-C₈ haloalkynyloxyalkoxy; C₃-C₁₂ acylaminoalkoxy; C₂-C₈ alkoxyiminoalkyl; C₂-C₈ haloalkoxyiminoalkyl; C₃-C₈ alkenyloxyiminoalkyl; C₃-C₈ haloalkenyloxyiminoalkyl; C₃-C₈ alkynyloxyiminoalkyl; C₃-C₈ haloalkynyloxyiminoalkyl; C₅-C₁₀

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alkoxyalkynyloxy; C₆-C₁₂ cycloalkylideneiminooxyalkyl; C₆-C₁₂
 dialkylideneiminooxyalkyl; aryl optionally substituted; —S(O)_mR₁; —OS(O)_rR₁; —
 SO₂NR₂R₃; —CO₂R₄; —COR₅; —CONR₆R₇; —CSNR₈R₉; —NR₁₀R₁₁; —
 NR₁₂COR₁₃; —NR₁₄CO₂R₁₅; —NR₁₆CONR₁₇R₁₈; —PO(R₁₉)₂; -
 Z₂(CR₃₄R₃₅)_p(C=Y)T; -Z₃(CR₃₆R₃₇)_v(CR₃₈R₃₉=CR₄₀R₄₁)(C=Y)T;

Z, Z₁, Z₂=O, S(O)_r;

Y=O, S;

r is equal to 0, 1 or 2;

p, q are equal to 1, 2, 3 or 4;

v is equal to 0 or 1;

Z₃=O, S or a direct bond;

T represents: a hydrogen atom; a Z₄R₄₂ group; a —NR₄₃R₄₄ group; an aryl group or a
 heterocyclic group selected from triazolyl; triazolonyl; pyrazolyl; imidazolyl;
 imidazolidinonyl; tetrazolyl; tetrazolonyl; pyrrolyl; pyrrolidinyl; pyrrolidinonyl;
 pyridyl; pyrimidinyl; piperidinyl; piperidinonyl; piperazinyl; morpholinyl; said aryl
 and heterocyclic groups optionally substituted by one or more substituents selected
 from halogen; NO₂; OH; CN; CHO; linear or branched C₁-C₆ alkyl; linear or branched
 C₁-C₆ haloalkyl; C₃-C₆ cycloalkyl; C₅-C₆ cycloalkenyl; linear or branched C₁-C₆
 alkoxy; linear or branched C₁-C₆ haloalkoxy; C₃-C₆ cyanoalkyl; C₂-C₆ alkoxyalkyl;
 C₂-C₆ alkylthioalkyl; C₂-C₆ alkylsulfinylalkyl; C₂-C₆ alkylsulfonylalkyl; C₂-C₆
 haloalkoxyalkyl; C₂-C₆ haloalkylthioalkyl; C₂-C₆ haloalkylsulfinylalkyl; C₂-C₆
 haloalkylsulfonylalkyl; —S(O)_mR₁;

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$Z_4=O$, S or a direct bond;

R_{43} and R_{44} , the same or different, represent: a hydrogen atom; a linear or branched C_1 - C_6 alkyl group in turn optionally substituted with halogen atoms; a C_3 - C_6 alkenyl group in turn optionally substituted with halogen atoms; a Q_7 group; an arylalkyl group optionally substituted by one or more substituents selected from halogen; NO_2 ; CN; CHO; linear or branched C_1 - C_6 alkyl; linear or branched C_1 - C_6 haloalkyl; linear or branched C_1 - C_6 alkoxy; linear or branched C_1 - C_6 haloalkoxy; C_1 - C_6 alkylsulfonyl; C_2 - C_6 alkoxy carbonyl; or they jointly represent a C_2 - C_6 alkylene chain;

D represents: a heterocyclic group of the heteroaryl or heterocyclic type, in all the above cases the heterocycle can be mono or polycyclic and can be connected to the rest of the structure either through one of its carbon atoms or, when possible, through one of its nitrogen atoms;

R_x represents a substituent selected from: hydrogen; halogen; NO_2 ; CN; CHO; OH; linear or branched C_1 - C_6 alkyl; linear or branched C_1 - C_6 haloalkyl; linear or branched C_1 - C_6 alkoxy; linear or branched C_1 - C_6 haloalkoxy; C_1 - C_6 cyanoalkyl; C_2 - C_6 alkoxyalkyl; C_2 - C_6 alkylthioalkyl; C_2 - C_6 alkylsulfinylalkyl; C_2 - C_6 alkylsulfonylalkyl; C_2 - C_6 haloalkoxyalkyl; C_2 - C_6 haloalkylthioalkyl; C_2 - C_6 haloalkylsulfinylalkyl; C_2 - C_6 haloalkylsulfonylalkyl; C_2 - C_6 alkoxyalkoxy or C_2 - C_6 haloalkoxyalkoxy optionally substituted with a group selected from C_1 - C_4 alkoxy or C_1 - C_4 haloalkoxy; C_2 - C_6 haloalkylthioalkoxy; C_3 - C_{12} dialkoxyalkyl; C_3 - C_{12} dialkylthioalkyl; C_3 - C_{12} dialkylthioalkoxy; C_3 - C_{12} dialkoxyalkoxy; C_2 - C_6 haloalkoxyhaloalkoxy; C_3 - C_{10} alkoxyalkoxyalkyl; C_2 - C_6 alkenyl; C_2 - C_6 haloalkenyl; C_2 - C_6 alkenyloxy; C_2 - C_6 haloalkenyloxy; C_3 - C_8 alkenyloxyalkoxy; C_3 - C_8 haloalkenyloxyalkoxy; C_2 - C_6 alkynyl; C_2 - C_6 haloalkynyl; C_2 - C_6 alkynyloxy; C_2 - C_6 haloalkynyloxy; C_3 - C_8 alkynyloxyalkoxy; C_3 - C_8 haloalkynyloxyalkoxy; C_3 - C_{12} acylaminoalkoxy; C_2 - C_8

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alkoxyiminoalkyl; C₂-C₈ haloalkoxyiminoalkyl; C₃-C₈ alkenyloxyiminoalkyl; C₃-C₈ haloalkenyloxyiminoalkyl; C₃-C₈ alkynyloxyiminoalkyl; C₃-C₈ haloalkynyloxyiminoalkyl; C₅-C₁₀ alkoxyalkynyloxy; C₆-C₁₂ cycloalkylideneiminoalkyl; C₆-C₁₂ dialkylideneiminoalkyl; —S(O)_mR₁; —OS(O)_nR₁; —SO₂NR₂R₃; —CO₂R₄; —COR₅; —CONR₆R₇; —CSNR₈R₉; —NR₁₀R₁₁; —NR₁₂COR₁₃; —NR₁₄CO₂R₁₅; —NR₁₆CONR₁₇R₁₈; —PO(R₁₉)₂; —Q; —ZQ₁; —(CR₂₀R₂₁)_pQ₂; —Z(CR₂₂R₂₃)_pQ₃; —(CR₂₄R₂₅)_pZQ₄; —(CR₂₆R₂₇)_pZ(CR₂₈R₂₉)_qQ₅; —(CR₃₀R₃₁)_pZ(CR₃₂R₃₃)_qZ₁Q₆; —Z₂(CR₃₄R₃₅)_p(C=Y)T; —Z₃(CR₃₆R₃₇)_v(CR₃₈R₃₉=CR₄₀R₄₁)(C=Y)T;

if several R_x groups are present, these can be the same or different;

n=1-9;

excluding the following compounds having general formula (I) wherein A, B and R have the following meanings: A=4-chlorophenyl, B=1-methylimidazol-2-yl, R=H; A=4-nitrophenyl, B=1-(2-hydroxyethyl)-5-nitroimidazol-2-yl, R=H; A=phenyl, B=1H-benzimidazol-2-yl, R=C₂H₅; A=phenyl, B=4H-1-benzopyran-4-yl, R=CH₃; A=4-nitrophenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl, R=CH₃; A=phenyl, B=4-chloro-2,5-dioxo-2,5-dihydro-1H-pyrrol-3-yl, R=CH₃; A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-yl, R=C₂H₅; A=2-hydroxy-4-methoxyphenyl, B=thiazol-4-yl, R=CH₃; A=phenyl, B=2,5-diphenyl-1,3-oxathiol-2-yl, R=CH₃; A=4-nitrophenyl, B=4,6-bis(dimethylamino)-1,3,5-triazin-2-yl, R=CH₃; A=phenyl, B=furan-2-yl, R=CH₃; A=phenyl, B=1,3-dithian-2-yl, R=CH₃; A=phenyl, B=4-chlorothien-2-yl, R=H; A=phenyl, B=5-bromothien-2-yl, R=H; A=phenyl, B=5-methylthien-2-yl, R=H; A=phenyl, B=6-phenylpyrazin-2-yl, R=CH₃; A=phenyl, B=3,4-dihydro-3-methyl-2-oxo-2H-1,3-benzo-oxazin-4-yl, R=CH₃; A=phenyl, B=benzothiazol-2-yl, R=CH₃; A=2-hydroxy-4-methoxyphenyl, B=2-phenylthiazol-4-yl, R=CH₃; A=phenyl, B=5-methylfuran-2-yl, R=CH₃; A=phenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl, R=CH₃; A=phenyl, B=tetrahydrofuran-2-yl, R=CH₃; A=phenyl, B=2,3-dihydro-3-hydroxy-2-oxo-1H-indol-3-yl, R=CH₃; A=phenyl, B=4-chloro-1-methyl-2,5-dioxo-2,5-dihydro-pyrrol-3-yl, R=CH₃;

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A=phenyl, B=22-trifluoroacetyl-1,2,3,4-tetrahydroiso-quinolin-1-yl, R=C₂H₅;
A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-yl, R=CH₃;
A=4-nitrophenyl, B=2-(4-nitrophenyl)-3,5,6-triphenyl-pyridin-4-yl, R=CH₃;
A=phenyl, B=4,6-bis (dimethylamino)-1,3,5-triazin-2-yl, R=CH₃;
A=phenyl, B=4-methoxy-5-tert-butoxycarbonyl-1H-pyrro-2-yl, R=CH₃;
A=phenyl, B=1,3-dihydro-3-oxo-isobenzofuran-1-yl, R=CH₃; A=phenyl, B=(5-methoxycarbonylmethyl)thien-2-yl, R=H; A=phenyl, B=4-methylthien-2-yl, R=H;
A=phenyl, B=1,4-dihydro-1-methyl-3-nitroquinolin-4-yl, R=H; A=phenyl, B=thien-2-yl, R=H; A=phenyl, B=6-methylbenzothiazol-2-yl, R=CH₃; A=2-methoxycarbonylphenyl, B=phenyl, R=CH₃; A=2-benzyloxy-4-methoxyphenyl, B=2,3,4-trimethoxyphenyl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H; A=2-nitrophenyl, B=phenyl, R=H; A=2,4,5-trimethoxyphenyl, B=4-methoxyphenyl, R=H; A=4-bromophenyl, B=phenyl, R=H; A=4-bromophenyl, B=2,4-dinitrophenyl, R=CH₃; A=4-chlorophenyl, B=phenyl, R=H; A=2,4-dibenzyloxy-5-methoxyphenyl, B=1,3-benzodioxol-5-yl, R=H; A=2,4-dibenzyloxyphenyl, B=1,3-benzodioxol-5-yl, R=H; A=4-methoxyphenyl, B=2-carboxyphenyl, R=H; A=4-methylphenyl, B=2,4-dinitrophenyl, R=CH₃; A=4-hydroxy-3-methoxyphenyl, B=4-hydroxy-3-methoxyphenyl, R=H; A=2-nitrophenyl, B=4-methylphenyl, R=H; A=4-chlorophenyl, B=4-chlorophenyl, R=H; A=2,4-diacetoxyphenyl, B=phenyl, R=CH₃; A=3-methoxyphenyl, B=phenyl, R=C₂H₅; A=4-nitrophenyl, B=phenyl, R=H; A=2-nitrophenyl, B=4-n-butoxyphenyl, R=H; A=2-nitro-4-chlorophenyl, B=4-methylphenyl, R=H; A=phenyl, B=8-carboxynaphthalenyl, R=CH₃; A=2,5-dimethoxyphenyl, B=2-hydroxyphenyl, R=C₂H₅; A=4-fluorophenyl, B=2-nitro-4-trifluoromethylphenyl, R=CH₃; A=3-chloro-4-methylphenyl, B=2,4-dinitrophenyl, R=CH₃; A=2-nitro-4-chlorophenyl, B=phenyl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B=4-methylphenyl, R=H; A=2-carboxy-6-nitrophenyl, B=phenyl, R=CH₃; A=2,4,5-trimethoxyphenyl, B=3-methoxyphenyl, R=H; A=phenyl, B=4-bromophenyl, R=H; A=6-benzyloxy-2,3,4-trimethoxyphenyl, B=1,3-benzodioxol-5-yl, R=H; A=4,5-dimethoxy-2-

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nitrophenyl, B=4-methoxyphenyl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B=4-chlorophenyl, R=H; A=2,4-dibenzyloxyphenyl, B=4-methoxyphenyl, R=H; A=4-methylphenyl, B=4-methylphenyl, R=H; A=4-dimethylaminophenyl, B=phenyl, R=H; A=4-methoxyphenyl, B=phenyl, R=H; A=4,5-dichloro-2-nitrophenyl, B=4-chlorophenyl, R=H; A=2-nitrophenyl, B=4-methoxyphenyl, R=H; A=phenyl, B=2,5-dimethoxycarbonylaminophenyl, R=CH₃; A=4-hydroxy-4-methoxyphenyl, B=2-methoxyphenyl, R=H; A=phenyl, B=4-methylphenyl, R=H; A=2-nitrophenyl, B=4-methoxyphenyl, R=H; A=2-nitro-4-chlorophenyl, B=4-methoxyphenyl, R=H; A=4-chlorophenyl, B=phenyl, R=C₂H₅; A=2-tert-butoxycarbonyl-5-ethyl-4-methoxyphenyl, B=2,3-dihydro-7-methyl-1,4-benzodioxin-6-yl, R=tert-butyl; A=phenyl, B=2-nitro-4-trifluoromethylphenyl, R=CH₃; A=3,4-dichlorophenyl, B=2,4-dinitrophenyl, R=CH₃; A=4,5-dichloro-2-nitrophenyl, B=4-methoxyphenyl, R=H; A=4-methoxy-2-nitrophenyl, B=4-methylphenyl, R=H; A=phenyl, B=anthracene-9-yl, R=CH₃; A=phenyl, B=4-methoxyphenyl, R=H; A=2,4,5-trimethoxyphenyl, B=phenyl, R=H; A=2,4-diacetoxyphenyl, B=2,4,5-trimethoxyphenyl, R=CH₃; A=2-hydroxyphenyl, B=phenyl, R=H; A=4-methoxy-2-nitrophenyl, B=phenyl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B=phenyl, R=H; A=2,4-dinitrophenyl, B=phenyl, R=CH₃; A=phenyl, B=phenyl, R=CH₃; A=phenyl, B=4-dimethylaminophenyl, R=H; A=phenyl, B=2,4-dinitrophenyl, R=CH₃; A=4,5-dichloro-2-nitrophenyl, B=4-methylphenyl, R=H; A=4-bromophenyl, B=phenyl, R=CH₃; A=2-(4-methylphenylsulfonyloxy)-6-methoxyphenyl, B=phenyl, R=H; A=4-methylsulfonylphenyl, B=2-methoxyphenyl, R=CH₃; A=4-methoxyphenyl, B=4-methoxyphenyl, R=CH₃; A=phenyl, B=4-chlorophenyl, R=H; A=2-nitrophenyl, B=4-nitrophenyl, R=H; A=phenyl, B=phenyl, R=H; A=2,4-dimethoxyphenyl, B=4-methoxyphenyl, R=H; A=2-nitrophenyl, B=4-n-hexyloxyphenyl, R=H; A=4-methoxy-2-nitrophenyl, B=4-methoxyphenyl, R=H; A=phenyl, B=9-carboxyphenanthren-10-yl, R=CH₃; A=phenyl, B=phenyl, R=CH₃; A=3,4-dimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H; A=2,4-dimethoxyphenyl, B=phenyl, R=H; A=phenyl, B=2-hydroxy-3,4,6-

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trimethyl-5-methoxyphenyl, R=CH₃; A=4-chloro-2-nitrophenyl, B=4-chlorophenyl, R=H; A=2-nitrophenyl, B=4-chlorophenyl, R=H; A=2,4,5-trimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H; A=4-chlorophenyl, B=2,4-dinitrophenyl, R=CH₃; A=4,5-dichloro-2-nitrophenyl, B=phenyl, R=H; A=4-methoxyphenyl, B=phenyl, R=CH₃; A=2,4-dibenzoyloxyphenyl, B=3,4-dimethoxyphenyl, R=H; A=4-methylthiophenyl, B=4-methoxyphenyl, R=CH₃; A=phenyl, B=phenyl, R=C₂H₅; A=4-methoxyphenyl, B=2,4-dinitrophenyl, R=CH₃; A=2-nitrophenyl, B=3-chlorophenyl, R=H; A=2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H; A=4-methoxyphenyl, B=4-methoxyphenyl, R=H; A=2-hydroxyphenyl, B=4-methoxyphenyl, R=H; A=phenyl, B=2,5-bis(phenacylamino)phenyl, R=CH₃; A=4-nitrophenyl, B=4-methylphenyl, R=H; A=2-nitrophenyl, B=4-n-pentyloxyphenyl, R=H; A=4-methoxy-2-nitrophenyl, B=4-chlorophenyl, R=H; A=phenyl, B=2-carboxynaphthalen-1-yl, R=CH₃.

18 (Canceled)